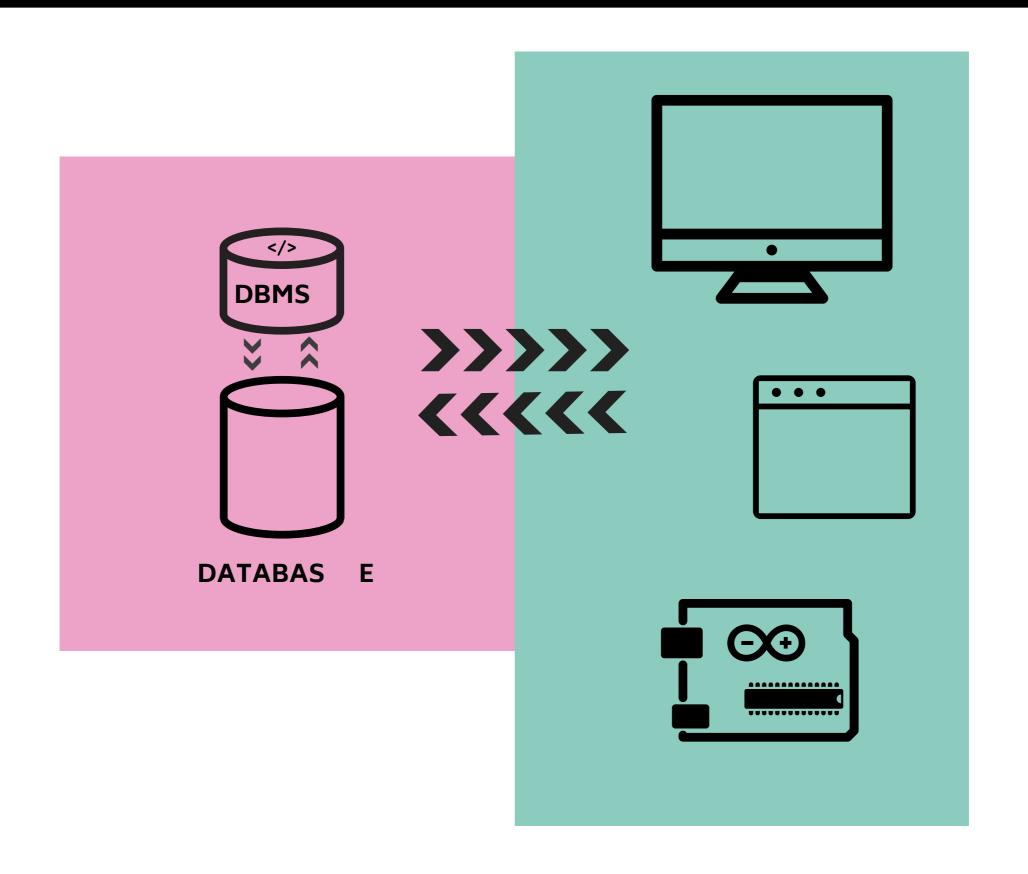
DATABASES WEEK 10

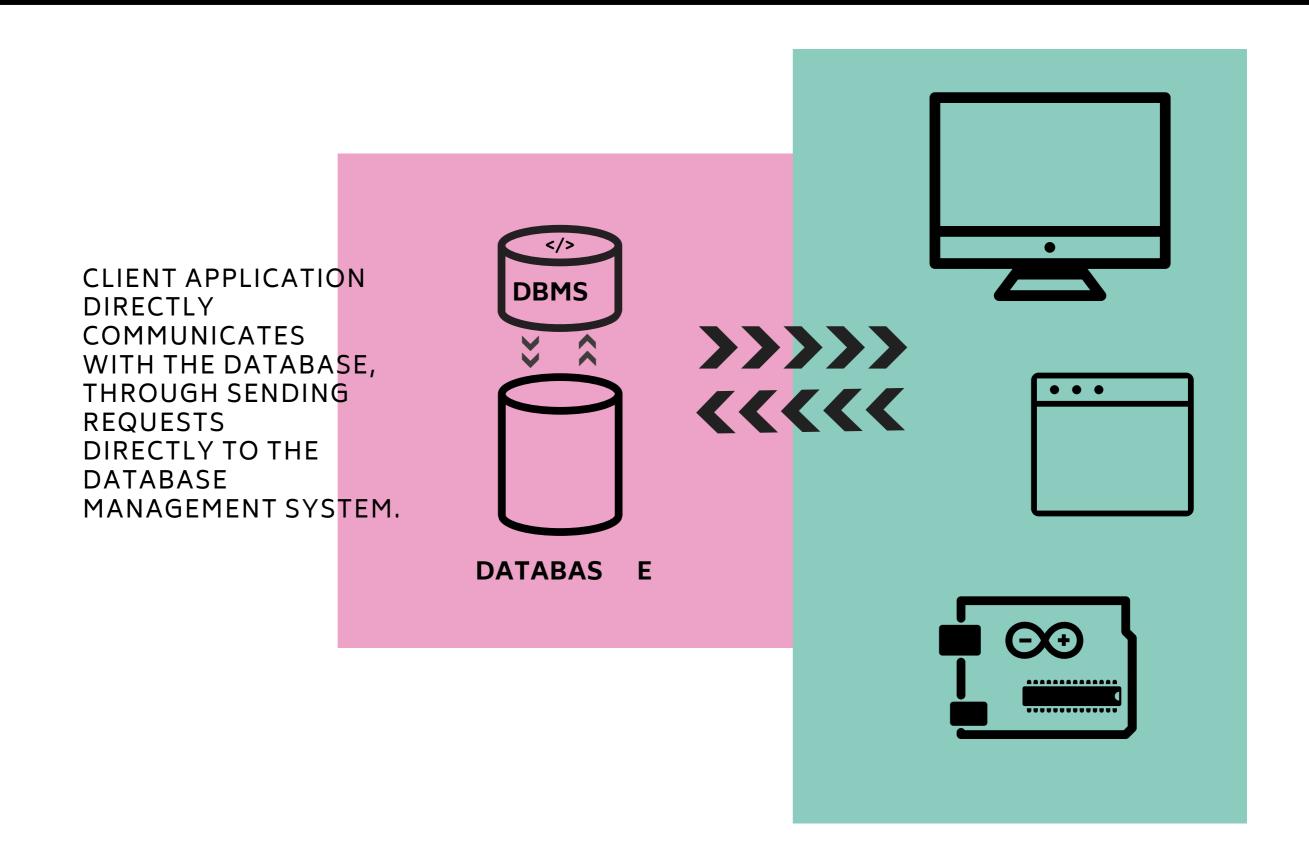
SYSTEM ARCHITECTURE

TWO TIER

CLIENT TIER



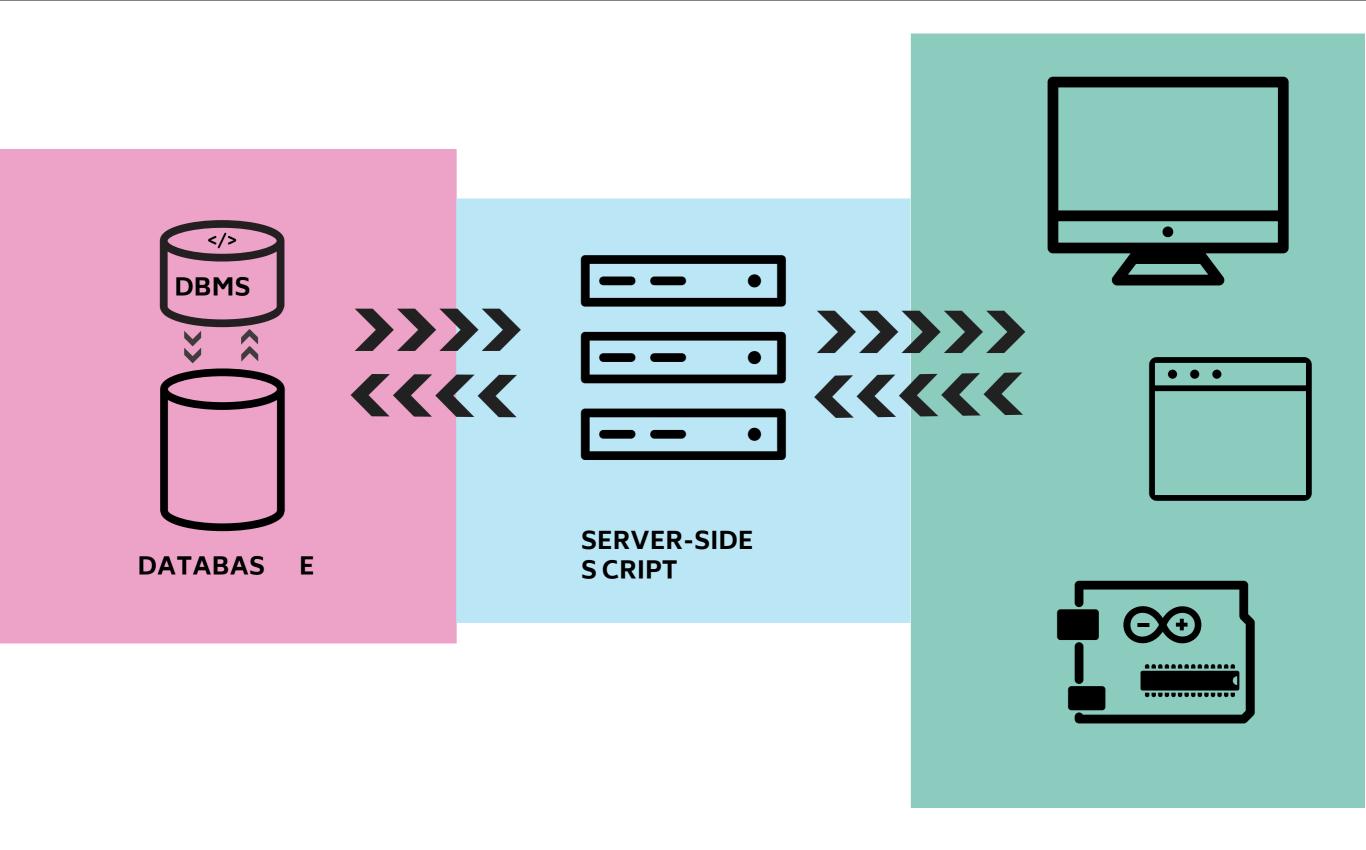
CLIENT TIER



THREE TIER

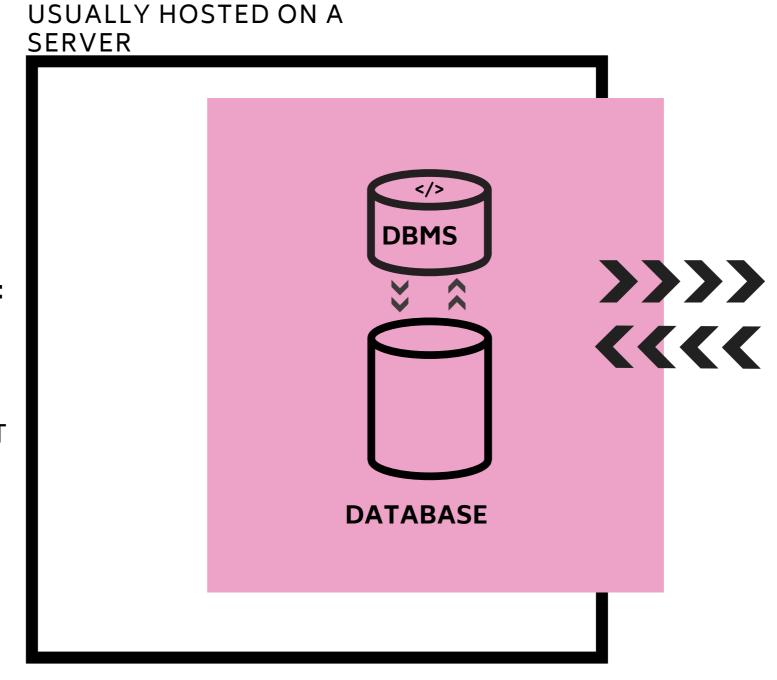
LOGIC TIER

CLIENT TIER



A DATABASE IS MADE OF TWO MAIN COMPONENTS:

THE STRUCTURED
COLLECTION OF DATA
&
DATA BASE MANAGEMENT
SYSTEM (DBMS)



DATABASE MANAGEMENT SYSTEMS ALLOW YOU TO **COMMUNICATE WITH THE** DATABASE, ORGANISE DATA AND MANIPULATE IT.

> **DATABASE MANAGEMENT** SYSTEM **SOFTWARE:**

MYSQL MONGOBD SQLITE POSTGRESQL

SERVER DBMS >>>> <<<< THE **DATABASE DBMS THE SQL**

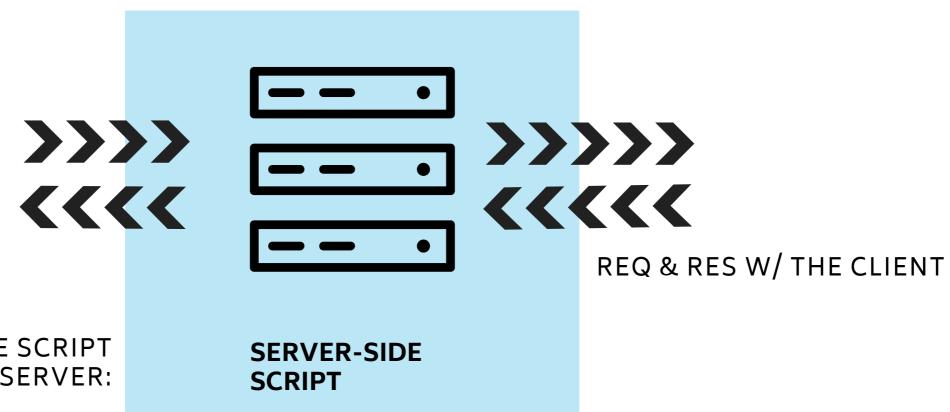
USUALLY HOSTED ON A

REQUESTS SENT TO DATABASE WILL USE THE DBMS SYNTAX TO RETRIEVE DATA.

I.E. WITH SQL BASED SYNTAX WOULD BE **USED TO QUERY THE** DATABASE.

LOGIC TIER

ACTS AS INTERMEDIATE
BETWEEN CLIENT & DB
//
VALIDATES, PROCESSES &
CALCULATES DATA



SERVER-SIDE SCRIPT RUNNING ON A SERVER:

PYTHON, NODE, RUBY ON RAILS, PHP,

CLIENT TIER

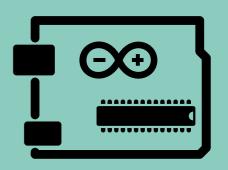
THE CLIENT TIER IS THE USER INTERFACE, THE RENDERING OF INFORMATION.

APP
LIGHT INSTALLATION
ARDUINO
PROCESSING
OPEN FRAMEWORKS
A BUTTON

...



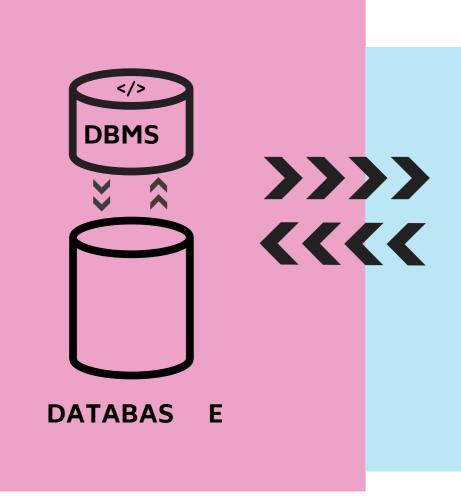


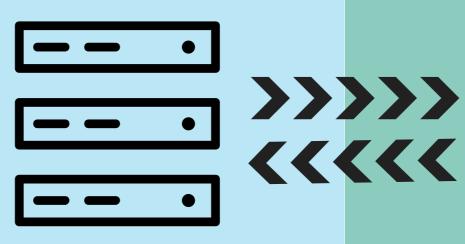


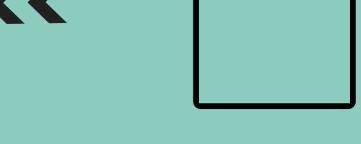
LOGIC TIER

CLIENT TIER

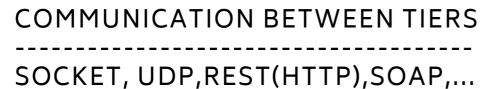
ARE BUILT + MAINTAINED AS SEPERATE MODULES & CAN ALL EXIST IN DIFFERENT LOCATIONS

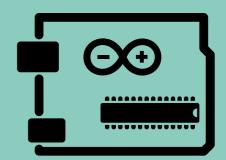




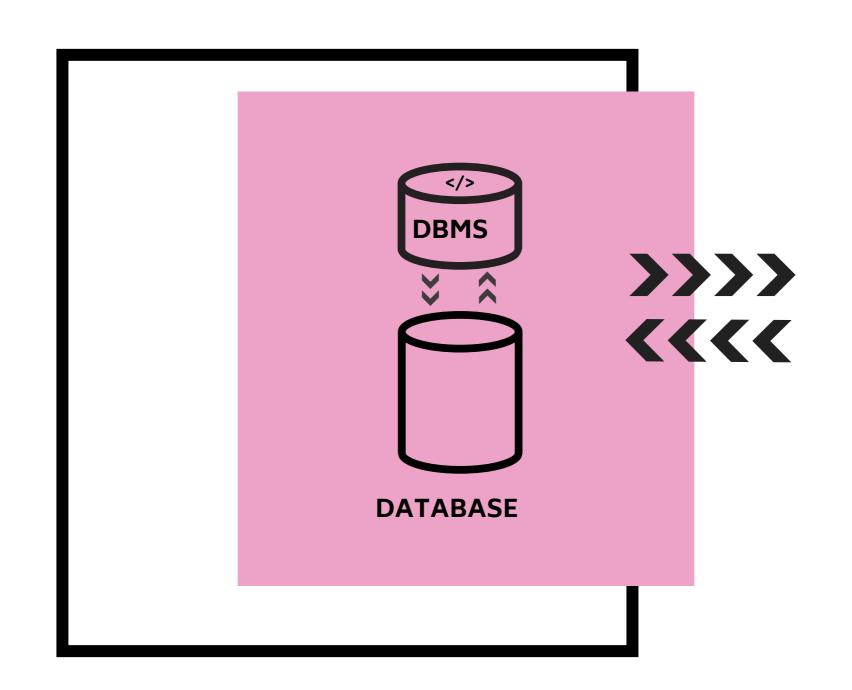


SERVER-SIDE S CRIPT





DATABASES



DESIGNING ADATABASE

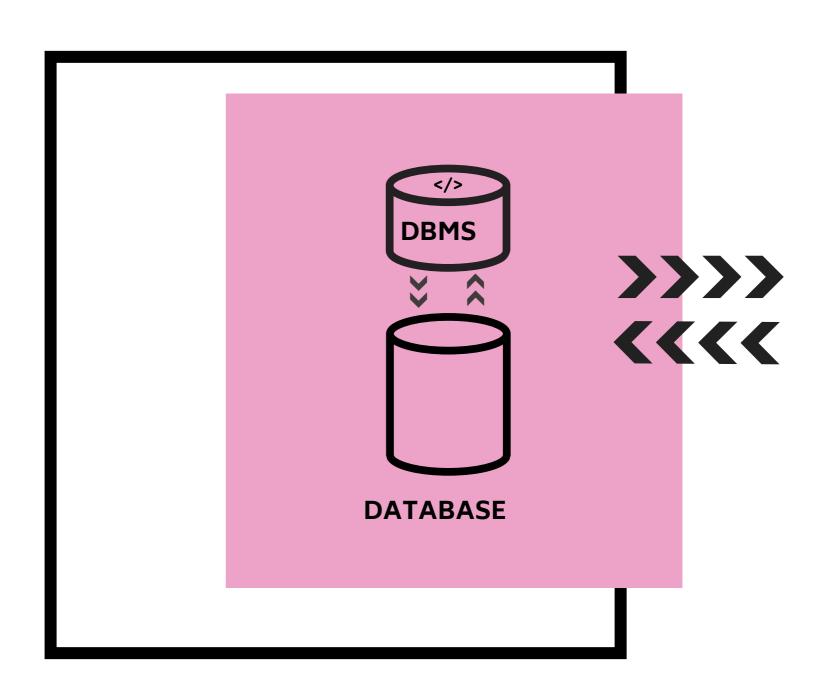
RELATIONAL DBMS

MAMP

APACHE = DATABASE SERVER

MYSQL = DATABASE MANAGEMENT SYSTEM

PHP = SERVER-SIDE SCRIPTING LANGUAGE



SEQUEL PRO

